BTL-3000

SCOTCH DOUCHE

USER'S MANUAL

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1. INSTRUCTIONS FOR USE

Scotch Douche - The Scotch Douche with its compact and functional design belongs to the standard equipment of spa resorts, sanatoria and sport centres. The application of hot and cold water currents has a favourable effect on activating all the control centres of the nervous system. Alternating thermal and mechanical impulses stimulate the vegetative and endocrine regulation of the organism, strengthen its immunity, and thus enhance its proper functioning. The straight or whirling water current is easily regulated by jet adjustment.

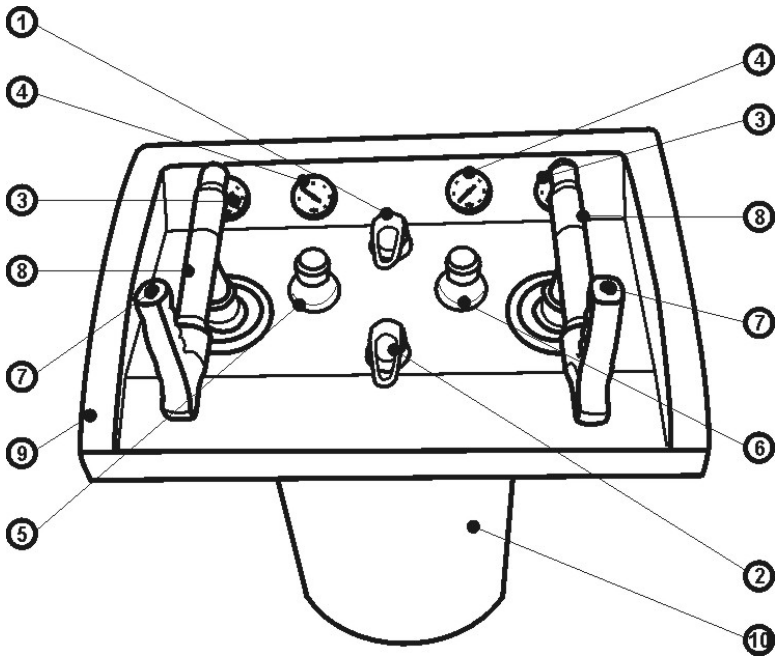
1.1 OUTWARD APPEARANCE

Scotch Douche are made of progressive and high-quality materials and equipped with top equipment the technology of which predestines it for long-lasting and trouble-free operation.

The device is equipped with 2 jets made of stainless steel, electric control, thermometer and manometer.

Large enough and clearly organized control panel includes all needed controls which serve for secure and perfect operation of the hydromassage equipment.

1.2 CONTROL



1. Lever valve (control of flow and pressure in the left jet)
2. Lever valve (control of flow and pressure in the right jet)
3. Manometer
4. Thermometer
5. Mixing of cold and hot water for left jet
6. Mixing of cold and hot water for right jet
7. Electronic switch
8. Jets
9. Control panel
10. Support column of stainless steel

After successful installation disinfect the device (follow the instructions below) and rinse it.

The control panel bears two self-contained jets. The left jet is control by the left controls and vice versa.

By the water tap controllers 5+6 set the desired temperature of water. By the lever valves 1,2 let water in the electrovalve of the jet. Press the button 7 to start one or both scotch douche jets; then you can start the massage procedure. The thermometer 4 shows the set temperature, the manometer 3 shows the actual pressure of water in the jet. For control of the pressure use the lever taps 1,2.

1.3 END OF OPERATION

To terminate the BTL-3000 scotch-douche massage close the electrovalve by pressing the electronic button on the handle. In case of longer pause close the lever valves 1 +2.

1.4 MAINTENANCE AND CLEANING

1.4.1 GENERAL PRINCIPLES OF CLEANING

Foreign substances (paint, putty, etc.) on the device surface remove carefully, best by a wooden spattle. Never use **steel wool, metallic sponges, knifes or scouring washcloth**. Stains of oil or grease can be removed by **denatured alcohol**.

Never use strong solvents such as **acetone, paint thinners, benzine, ammonia or chloride agents, or abrasive polish**.

For metallic parts use special **milk or paste**, like for polishing of a car. Finally wash the cleaned parts by warm water and disinfect them by disinfectants approved by the responsible health officer.

1.4.2 CLEANING AND DISINFECTION

Regular cleaning after therapy

- After each therapy let water out and clean the tub by proper cleaner approved by the health officer (e.g. Chirosan by Bochemie s.r.o.).
- The equipment's parts which come into touch with the patient should be cleaned by agents approved by the responsible health officer.

1.4.3 MAINTENANCE

The service inspection including check of all parameters of the equipment and possible service actions must be performed in intervals complying with the valid law, not longer than 36 months. The inspection is performed by the BTL authorized service department on the basis of the user's order. If the inspection is not done in the stated term the manufacturer does not guarantee the technical parameters and safe operation of the product.

1.5 PRINCIPLES OF SECURE HANDLING

This device has applied parts of type B.

The equipment does not use any medicaments or other substances which would be its integral part or would be applied by means of it.

- Before first switch-on of the equipment read carefully the User's Manual.
- The equipment must be professionally installed by an authorized representative of BTL.
- Installation and service instructions are not included in this Manual.
- All staff to use the equipment must be instructed of the way of operation, maintenance and checking of the equipment and of the safety principles.

- The electrical cabling which the equipment will be connected to must be installed and tested according to the existing valid standards (IEC 364). If you are not sure that the mains are completely OK get them inspected by an inspection engineer.
- Check if the parameters of the mains correspond to the requirements of the equipment according to Chapter 2
- The equipment is designed for work in the environment defined in Chapter 2. It must not be used in explosive environment. The equipment must not be used in connection with inflammable anaesthetics or oxidizing fluids (O_2, N_2O, etc.).
- Inspect the equipment thoroughly before each use (surface of the tub, functions of displays and controls, etc.); in case of any inconsistency stop using the equipment and contact the authorised service department. If the equipment's behaviour differs from the function described in this Manual stop using the equipment and contact the authorised BTL service department.
- If the equipment shows any defect or if you have doubts about its correct function, terminate the therapy immediately. If you do not determine the source of uncertainty after thorough study of the Manual, contact the authorised service department. If the equipment is used out of accord with this Manual or is used even if it shows functional differences from this Manual, the user is responsible for the damages caused by the equipment!
- Do not dismantle the equipment in any case, removal of protective covers implies the danger of electrical injury.
- All material and parts which come into direct contact with the patient's body must comply with the respective standards related to irritability, allergization, toxicity, genotoxicity and carcinogeneity (ISO 10993-1, ISO 10993-3, ISO 10993-5). The user is responsible for all these materials and parts if not supplied by the BTL equipment supplier.
- The equipment does not use or produce any toxic substances during its operation, storage or transport under the stated conditions.
- Before start of therapy check if all set parameters correspond to your intents.
- To terminate therapy press the respective control element, not the mains switch.
- The equipment and the accessories must not be used in a way out of accord with this User's Manual.
- At work with the equipment use the recommended protective tools.
- The equipment must be placed out of reach of children.
- Main switch use for: switching on and off in operational breaks
  at repairs and service
  at weekend downtimes
  in case of need of fast shut-down
- Do not add to the bath any liquid agents or powders, especially soaps, foams and oils, if not particularly designed for hydrotherapy systems.
- Do not leave persons with restriction in movements, mentally affected persons and children, unattended.
- Near the tub it is forbidden to use any portable electric device! Other electric devices in the room and their parts under voltage must be located and fixed so that they cannot fall into the bath!
- The equipment contains components which could cause electromagnetic interference.
- It is recommended to separate the patients' rooms from the staff rooms so that the noise level in the staff rooms is reduced (unlike the patients, the staff is exposed to noise for approx. 8 hours a day). In addition it is suitable to divide the room (at least by curtains) to separate parts, one therapy and one patient each. In case of need extend the anti-noise measures.
- If after many years of operation it is necessary to discard the hydrotherapy equipment it is necessary to contact a specialized company dealing with this activity, or the supplier or manufacturer who will advise you on the process of liquidation, or to discard of it in a way which is usual for this type of devices. The equipment does not contain any toxic materials which could harm the environment in case of normal way of liquidation.

1.1 INDICATIONS

- vegetative and hormonal functional disorders

1.2 COUNTERINDICATIONS

The list of counterindications is the list of cases in which the manufacturer does not recommend application of the selected therapy. Indeed the professional workplaces who are aware of the possible consequences do not need to observe these listed counterindications – all responsibility for use of the therapy, however, lies with them.

- Neurasthenia
- Acute inflammations
- Tumours in skin and subcutis
- Pregnancy
- States after heart attack, cardiovascular disorders

- Kidney diseases
- Varixes, post-trombophlebitis states, states after ulcus cruris

1.6 TERMS OF GUARANTEE

The manufacturer provides guarantee 24 months from the date of delivery of the hydromassage tub. The guarantee expires if the equipment has been used out of accord with this Manual or in case of an unqualified intervention in the equipment. The guarantee does not apply to mechanical damage of the skeleton and panelling of the tub, neither to damage of the pump caused by incorrect handling (operation without water). In case of any defect always contact the authorized BTL service department.

Installation of tubs must be done by qualified personnel with BTL accreditation. In case of "amateurish" installation the supplier does not guarantee for the installation part of the hydromassage equipment and the defects connected with unprofessional installation. Guarantee does not apply for these defects.

1.3 ACCEPTANCE CRITERIA

When accepting the tub check if:

- the skeleton, frame and panelling of the hydrotherapy tub are not mechanically damaged and are completely OK
- the tub does not leak
- all hydrotherapy subsystems and their control are functioning and trouble-free

2. TECHNICAL PARAMETERS

Type	Scotch douche
Material of the skeleton	Acrylate
Material of the jets	Stainless steel
Dimensions [mm]	510 x 800 x 1128
Warm and cold water supply	4 x 1“
Weight without water [kg]	55
Power supply	
maximum input	200VA
mains voltage ~ 198 V to 252 V (230 V nominal), alternating	Yes
frequency 50 Hz	Yes
protection class I (according to IEC 536)	Yes
Internal chemical sources	No
Classification	
applied parts of type	B
class according to MDD 93/42/EEC	IIb

2.1 TRANSPORT AND OPERATING CONDITIONS

Identification BTL-3000 Series System

Operating conditions

ambient temperature	+ 10 °C to + 40 °C
relative humidity	30 % to 75 %
atmospheric pressure	700 hPa to 1060 hPa
position	on legs
type of operation	continuous

Transport and storage conditions

ambient temperature	- 10 °C to + 55 °C
relative humidity	25 % to 85 %
atmospheric pressure	650 hPa to 1100 hPa
position	on pallet
storage time	max. 1 year
other conditions	transport only in the supplied packaging

2.2 APPLICABLE STANDARDS

No.	Name	IEC, EN, ISO, MDD
1	Medical electrical equipment Part 1: General requirements for safety	IEC 601-1
2	Amendments to IEC 601-1	A2, A11 a A12
3	Medical electrical equipment Part 1: General requirements for safety 2. Collateral Standard: Electromagnetic compatibility. Requirements and tests	IEC 601-1-2
4	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement	EN 55011
5	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 2: Electrostatic discharge immunity test - Basic EMC Publication	IEC 61000-4-2
6	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 3: Radiated, radio frequency, electromagnetic field immunity test	IEC 61000-4-3
7	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 4: Electrical fast transients/burst immunity test - Basic EMC Publication	IEC 61000-4-4
8	Electromagnetic compatibility (EMC) - Part 4: Testing and measurement techniques - Section 5: Surge immunity test	IEC 61000-4-5
9	Medical devices - Risk Analysis	EN 1441
10	Biological evaluation of medical devices - Part 1: Evaluation and testing	ISO 10 993-1
11	The Medical Devices Directive 93/42/EEC	MDD 93/42/EEC

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